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Director's Corner



Some say efficiency is the cornerstone of working smarter, and the crucial ingredients for improving efficiency are networking, knowing advances within your field, sharing information and developing mutually beneficial professional relationships that can lead to partnerships, collaborations and lifelong friendships.

So if you really want to boost your career—and the quality and efficiency of your efforts—join a professional association, such as the American Psychological Association (APA) or the Aerospace Medical Association (AsMA), or whatever group is most appropriate to your area of expertise.

Professional associations offer a natural network of folks who share your interests, a place to learn about recent developments in your technical specialty, a portal for sharing information and a relaxed atmosphere for getting to know people.

And don't just join and sit on the sidelines; participate at the local, regional and national or international levels. It's a great forum for presenting your work and showcasing AFRL/HE to your peers. Being an active member of a professional association can give you a different perspective on your life and your career.

I've realized many benefits through this channel, including intangibles such as leadership development. I've shared the joys and frustrations of military psychology with people who understand them because they've been there.

I hope you all had a safe and enjoyable summer; enjoy this edition of our newsletter and if you don't already belong to a professional society, please consider joining one.

Dr. Hendrick "Henk" Ruck, SES
Director
Human Effectiveness Directorate

HE blood drive gets new coordinator

Coordination of the HE blood drives has recently changed hands. Ms. Sheryl Treon of HE's Battlespace Acoustic Branch (HECB) has taken over the responsibility from Mr. Steve Stokes of HE's Information Operations & Special Programs Division (HEX). Steve has effectively led the drives for the past two and a half years. His many efforts in ensuring the success of the directorate's blood drives are greatly appreciated!

The spirit award/unit donation competition again resulted in a tie at the most recent blood drive held July 26. HE's Logistics Readiness Branch (HEAL) matched six donors with the combined team of HE, HEF, HEN, HEX. HE's Applied Technology Branch (HEPB) came in 2nd Place with five donors. The Battlespace Visualization Branch (HECV) took 3rd Place with four donors. Congratulations to the current leaders and a huge thank you to all who support this worthy cause!

The donor center was able to collect 35 units during the last blood drive. This was very helpful to the blood bank as the summer months are typically a slow period for blood donations for a variety of reasons. Volunteers are highly encouraged to consider donating at the next blood drive which will be held in Bldg. 441 on Oct. 2.

For more information, contact Ms. Treon at DSN 785-3660 ext. 417. You may also sign up online at <http://wpmc1.wpafb.af.mil/BloodDonorCal/> at any time.

HE researcher participates in language immersion course

Six weeks in Argentina learning the culture and touring the country's beautiful sites may sound like an ideal vacation, but for one Air Force Research Laboratory researcher it was the chance of a lifetime to become fluent in the Spanish language while attending the Linguattec Language Center in Buenos Aires, Argentina.



During her previous travels, 2Lt Janson has worked with Hispanic children in a Venezuelan orphanage called Hogar Bombi. Above, Lt Janson feeds a little girl named Yelimar.

Second Lieutenant Julie Janson, an information operations program manager and recent addition to HE's Information Operations and Special Programs Division (HEX), recently participated in a Spanish language

immersion course that built on her previous years of study and provided her the opportunity to learn more about the Argentinean culture.

"This was the first time I have been sent for language immersion," Lt Janson said. "I was thrilled because I think, really, immersion is the only way to become fluent."

Lt Janson's education included cultural excursions, one-on-one tutoring, classroom time, and living with a host family who speaks only Spanish. She spent five hours a day in the classroom with occasional lectures and excursions, but much of her learning was

accomplished through speaking with her classmates and teachers.

"The school focuses more on conversation instead of textbooks because when we are children we learn proper grammar by hearing it," Lt Janson said. "Therefore, that is the best way to learn it as adults."

During her time at the Center, Lt Janson also participated in two excursions per week to the areas surrounding Buenos Aires. She traveled to Uruguay and to the famous San Felipe vineyard in Mendoza on the weekends. She also attended a traditional Tango performance and saw a ballet at the Teatro Colón in Buenos Aires.

In addition to applying her language skills to her AFRL duties, Lt Janson hopes to one day use her fluency in Spanish while working in the counterdrug field or at the Guantanamo Bay Naval Station, Cuba. She also plans to work with disadvantaged children, many of whom speak Spanish as a first language.

Lt Janson says she was thrilled to participate in the language immersion program and to have the rare experience of studying language in a foreign country.

"I have never had the opportunity to live in another country which was something I had always wanted to experience," she said. "I

can not begin to describe what a fantastic program this is. I highly recommend that, even if the Air Force does not send you, do it as a vacation, because it really is an invaluable experience."

Bridge-Linguattec is a language training company with headquarters in Denver, Colorado, and affiliate offices in Argentina, Brazil, and Chile. Founded in 1983, Bridge-Linguattec now offers a wide spectrum of language training and related services in countries across the globe.



2Lt Julie Janson enjoys a break during a weekend trip to the famous San Felipe vineyard in Mendoza, Argentina.



Discovery Networks includes HE research facility in infrasound documentary

Ultra-low frequency sound typically is too low for humans to hear. But at that level it is a powerful force, strong enough to violently shake concrete walls and to once be considered as a potential weapon system.

Independent United Kingdom film company Yap Films visited HE's Warfighter Interface Division (HEC) in June to capture footage of the high-intensity sound system and the Dynamic Pressure Chamber (DPC) where much of the early research on ultra low-frequency sound, or infrasound, was conducted.

Although the vintage DPC is mothballed now, the high-intensity sound system in Building 441 is still operational. Both saw extensive activity in the 1960s and 1970s when Air Force scientists were working to determine how low-frequency sound generated by jet and rocket engines would affect pilots and Apollo space program astronauts, according to Mr. Rich McKinley, principal biomedical engineer in HE's Bioacoustics Branch (HECB).

Mr. McKinley and HECB audiologist Capt Jeff Graley assisted film-makers by re-enacting research conducted using the DPC in Building 824.

Yap Films is producing a two-hour documentary for Discovery Networks. The show, scheduled for completion in late



Rich McKinley (left) closes the door to seal Capt Jeff Graley inside the Dynamic Pressure Chamber, while cameraman Matthew Board captures this re-enactment of research conducted by Capt George Mohr, an Air Force scientist who studied infrasound at Wright-Patterson in the late 1960s and early 1970s.

December, investigates facts and myths of infrasound, according to Mr. Roger Finnigan, director and producer of the project.

HED Chief Scientist inducted as AFRL Fellow

Dr. Michael Murphy of HE's Radiofrequency Radiation Branch (HEDR) at Brooks City-Base was inducted as an AFRL Fellow for 2006 at a ceremony held Sept. 19 at the National Museum of the United States Air Force, Wright-Patterson AFB.

Dr. Murphy is the Chief Scientist for HE's Directed Energy Bioeffects Division (HED) and has an extensive research career in radiofrequency (RF) bioeffects research and international collaboration for RF bioeffects. His significant contributions and impact on national and international RF Exposure Standards, World Health Organization representation, and research contributions to Active Denial technologies has been vital to developing and transitioning directed energy weapons to our warfighters.

Designed to recognize and reward AFRL's most outstanding in-house scientists and engineers, the fellows program encourages

further research and development by providing each new fellow a grant of \$100,000 per year for two years, in addition to their current budget.

AFRL fellows are nominated by their directorates and selected by the AFRL commander through a highly competitive process that recognizes the laboratory's very best scientists and engineers.



Dr. Kirk Hackett (AFRL/DETP), Dr. Michael Murphy, HEDR Branch Chief Dr. Ben Rockwell, and Dr. Gordon Hengst (HED) at the 2006 AFRL Fellows awards banquet held at the Air Force museum at Wright-Patterson AFB.



AFRL researcher awarded APA Gersoni Award



Dr. Dee Andrews

Dr. Dee H. Andrews, a senior scientist for aviation training research with the Air Force Research Laboratory's Human Effectiveness Directorate, has won the American Psychological Association Division 19 Charles S. Gersoni Military Psychology Award.

The award is presented for outstanding contributions to military psychology, excellence in research, service, product development, or administration that clearly reflects advancement of the profession of military psychology, improved effectiveness of military psychology systems,

or service on behalf of the welfare of military personnel.

HE Director Dr. Hendrick Ruck accepted the award on Dr. Andrews' behalf at the award ceremony held recently in New Orleans, La.

"This is a well-deserved tribute to the many significant contributions Dr. Andrews has made to the furtherance of military psychology," Ruck said. "This recognition not only honors his accomplishments but also highlights the world-class research performed by the men and women of the Air Force Research Laboratory."

As a senior scientist for HE's Warfighter Training Research Division in Mesa, Ariz., Dr. Andrews was honored for his outstanding and unusual contributions to psychology through the development of innovative training concepts and technologies; for technical leadership in developing the concept of distributed mission training into a multi-million synthetic battlefield for Air Force combat aircrews; and for his technical leadership in development of the multi-ship simulator fighter training program,

which is on the leading edge of technology and will permit aircrews to simulate combat using more realistic combat mission scenarios. Dr. Andrews' technical leadership has been critical in establishing his division as the premier aircrew training research facility in the world.

The Gersoni award is named after Charles S. Gersoni, who served as a clinical psychologist through World War II, worked steadfastly to establish a career force of uniformed clinical psychologists, and later became the first clinical psychology consultant to the Army Surgeon General. The clinical psychology training program developed by Gersoni and launched by the Army in 1949 later became a model for similar programs in the Navy and Air Force. At Gersoni's urging, the Army was the first military agency to insist upon doctorate-level training for psychologists.

Personnel Corner

Personnel Corner – Unit Compliance Inspection

By Ms. Linda Lange

Most of us are probably reaching the point where we're asking: Is all this effort to prepare for the Unit Compliance Inspection really worth it?

Believe it or not, AFMC inspections are more meaningful than inspectors searching for non-compliance and highlighting deficiencies. Leadership views UCI as an instructional opportunity to explain how and why operational guidelines strengthen the Command structure, enabling the Command to meet its goals and ultimately defeat its enemies.

The IG's overall objective during an inspection is to leave the organization in better shape than it was when the IG arrived.

Migrating best practices from one organization to another may help improve operations. As we clean, discard junk, discover treasures long-ago buried under mountains of "stuff," more than one HE employee has remarked that they are now able to locate needed tools, books, etc. in their work areas, and that they feel they are working more efficiently; we are, in fact, in better shape than when we started.

Improved efficiency is just one of the major benefits of our UCI preparation activities. While many of us complain about the pain and time it has taken for all the cleaning and organizing, most of us now can see, clearly, the payoff was worth the investment.

Although the UCI has a defined window of 10-25 October 2006, our efforts to continually

improve never really stop. Our real challenge now is to maintain compliance by sustaining the level of awareness and understanding of the process that we have achieved during the past few months.

In that spirit, thanks to all for your many efforts to help AFRL/HE showcase itself as a top-notch research organization. Be proud of your accomplishments and be prepared to show off your programs!

Please stay tuned for last minute e-mails with details on the inspection. You can find pertinent information on the inspection at the following site: <https://livelink.ebs.afrl.af.mil/livelink/lisapi.dll?func=ll&objId=3344286&objAction=browse&sort=name&viewType=1>

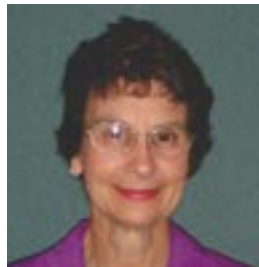


Human effectiveness researchers earn AFRL Corporate Awards

Five of eleven awards presented at the annual Air Force Research Laboratory's Corporate Awards luncheon went to researchers from the Human Effectiveness Directorate. The event was held July 13 at the Hope Hotel on Wright-Patterson Air Force Base.

"Winning nearly the majority of these awards is a remarkable achievement for our directorate," said HE Director Dr. Hendrick Ruck. "It's fantastic news for all of our nominees and their supervisors. I'm extremely proud of them."

The AFRL Corporate Awards recognize individuals or teams for acts that were clearly and distinctively outstanding, and that directly supported the goals and missions of AFRL organizations and the USAF over the past year.



Dr. Jill Parker won the Science/Technology Achievement Award (Individual) for her outstanding accomplishments in the field of molecular genetics. This award

recognizes the most notable and distinguished in-house technical achievement achieved by laboratory scientists and engineers in the past year.



The Defense Travel System Implementation Team comprised of Ms. Ester Browder and Mr. Chuck Garrety won the Mission

Support (Team) Award for their outstanding support of the entire directorate implementing the new Defense Travel System. This award

recognizes the most significant and outstanding support to customer(s) in accomplishing the mission achieved in the past year.



Dr. John Schlager won the AFRL Supervisory award for his leadership as Chief of the directorate's Applied Biotechnology Branch. This award recognizes

significant and outstanding qualities of a first level supervisor.



AFRL presented its Senior Administrative Excellence award to Master Sergeant Michelle Curran for her varied accomplishments as the Superintendent of the directorate's

Bioscience and Protection Division. This award is given in recognition for significant and outstanding administrative achievements by an individual in a senior position.



Senior Airman Naomi Delgado earned the Administrative Excellence Award for her diverse administrative support as an Information Manager for

AFRL's Detachment 5 at Brooks City-Base, San Antonio, Texas. This award recognizes significant and outstanding administrative achievements over the past year.

AFMC

UCI

UNIT COMPLIANCE INSPECTION

10-25 October 2006

For members of the

Air Force Research
Laboratory

Human Effectiveness
Directorate

ARE YOU PREPARED?



Notables

✚ **Lt Col Michelle Bryce** of HE's Radiofrequency Radiation Branch (HEDR) won the Air Force Medical Service Award for USAF Outstanding Achievement in Clinical Research at the Air Force level. This award annually recognizes a physician whose accomplishments in advancing medical research are noteworthy.

✚ The **Technical Data Visualization Team** in HE's Logistics Readiness Branch (HEAL) was selected for an award by the Society of Logistics Engineers (SOLE) for its work on methods to present technical manual information in visual formats. The award recognizes significant achievement in advancing new media styles for maintenance manuals that promote easier comprehension and better maintenance performance.

✚ **Dr. Todd Nelson** of HE's Collaborative Interfaces Branch (HECP) was recently approved as an NRC Post-Doctoral Advisor by the National Academy of Sciences. In the same time frame, Dr. Camilla Knott (HECP) was approved as an NRC Post-Doctoral Fellow. Her specialization is visual attention and eye movements and her proposed post-doctoral research will focus on change blindness. Change blindness is a phenomenon often observed in users of complex displays when there are

requirements to switch attention between multiple information sources, and high demands on attention by one or more concurrent tasks. Dr. Knott's research will address change blindness in tactical command and control environments.

✚ **Dr. Michael Haas** of HE's Collaborative Interface Branch (HECP) was selected as the Founding Chair of the new IEEE Chapter formed within the Dayton Section. On Aug. 3, IEEE announced the formation of the IEEE Dayton Section – Engineering in Medicine and Biology, and Systems, Man & Cybernetics Joint Societies Chapter. This Chapter could become one of the key professional societies supporting the anticipated formation of the Institute of Aerospace Medicine here at Wright-Patterson AFB.

✚ *First Wave*, a program which includes over 30 government and contractor personnel from HE's Warfighter Readiness Research Division (HEA), was selected in March as one of two winners of the 2006 NATO Research and Technology Organization Scientific

Achievement Award. The award was presented to the **Mission Training via Distributed Simulation Team** Sept. 20 at a NATO meeting in Copenhagen, Denmark. These individuals played significant roles in the planning,

implementation, execution, and assessment of this NATO research milestone by providing their scientific and technical expertise involving distributed simulation and training and led the multinational technology and assessment teams for this effort. As a result of First Wave, Allied Command Transformation is funding continuing development of a combined air operations training capability employing distributed simulation.

✚ The **Biokinetics Team** within HE's Biosciences and Protection Division (HEP) won the 2006 EPA Office of Research and Development (ORD) Teamwork Award. The team, consisting of Dr. David Mattie, Mr. Curt Grigsby, Dr. Jeff Gearhart, Mr. Dick Godfrey, and team lead Ms. Deirdre Mahle, was recognized for their work in "Internal and External Collaborations to Advance Pharmacokinetic Modeling on Age-dependent and Human Interindividual Variability for Risk Assessment." The Teamwork Award recognizes organizations or teams whose work epitomizes the precepts of ORD's Strategic Plan Goal 4, integrating across disciplines, scales of time, media, and location. This prestigious award was presented Sept. 28 at the 25th Annual ORD Awards Ceremony in Washington DC.



HE Picnic 2006

Many thanks are due to Dr. Bill Albery for his outstanding support as the event organizer for this year's HE Picnic and to the following people who helped make the event such a great success. From selling tickets to coordinating the children's and adult activities to providing the music and sound system capabilities and a variety of other tasks, they worked diligently "behind the scenes" to ensure the picnic was enjoyable for everyone.



Doug Coppess and Glenn Thomas, General Dynamics contractors within HE's Biomechanics Branch (HEPA), participate in the Cornhole Tournament held at the HE Picnic. First place winners of the tournament were the Basement Dwellers (Lt Col Tim "TJ" Johnson & Maj Jason Densley). The Boilercats team (Brina McKenna & Kyle Meckley) took second place.

Tickets Sales:

Gerema Randall
Chris Arnold
Helen Jennings
Cheri Savage
Barbara Cline
Connie LaPage
Martha Williamson
Amy Graves
Erica Doczy
Vincent Schmidt

Helpers:

Travis Hancock – ticket sales,
door prizes, ticket collection
Julia Parakkat – cooking/clean-up

Caterer:

Holly Neitman

Tickets & Flyer:

Chris Gulliford

Kids' Activities:

Kim Plaga
Erica Doczy
Hilary Gallagher
Julia Parakkat

Athletic:

Lt Jeremy Nelson (HR Derby)
Andy McKinley (Cornhole)

Sound system:

Frank Mobley
Brian Simpson



A sampling of the tasty morsels served up at this year's HE Annual Picnic. The picnic was held Aug. 18 at the Bath Township Park.



Dr. Kevin Geiss (right) was presented a Meritorious Civilian Service Award medal during the opening remarks at the HE annual Picnic in recognition of his outstanding performance of Associate Chief Scientist duties as a Senior Toxicologist in HE. Dr. Ruck presented the award.



Saying Goodbye to a Friend

It is with mixed emotions that the HEads Up staff brings you this edition of the newsletter. One of our own—Mrs. Karen Eizenga, who was directly responsible for compiling and publishing this newsletter for the past three years—is leaving us shortly.

While we are thrilled to see Karen going home to have her baby and become a stay-at-home mother, we are certainly sad to see her go and will miss her tremendously.

Those of you who have had the privilege of knowing Karen during her stay at HE, please take a moment to send an email or phone call to wish her well in her new endeavor.

Baby Girl Eizenga is scheduled for arrival on December 23 (perhaps via reindeer and sleigh?); what a wonderful Christmas gift for Karen and her husband Ken.

Karen, best of luck, we're going to miss you!

